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## KOREAN PATENT ABSTRACTS

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(71)Applicant: LG INFORMATION &amp; COMMUNICATIONS LTD.

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## (54) DIGITAL AUTOMATIC GAIN CONTROL DEVICE OF COMMUNICATION SYSTEM

## (57) Abstract:

PURPOSE: The digital AGC(Automatic Gain Control) device of a communication system is provided to use a digital AGC algorithm, so as to resolve a signal distortion, and to improve a reliability of a system. CONSTITUTION: An RF(Radio Frequency) AGC(Automatic Gain Control)(11) controls a signal level as much as a determined reference value, and outputs controlled I and Q signals. The first and the second A/DC(Analog to Digital Converters)(12,13) respectively perform an A/D conversion for the I and the Q signal. The first and the second filter(14,15) respectively filter outputs of the first and the second A/DC(12,13). A multiplier(16) multiplies signals filtered from the first and the second filter(14,15). An adder

(17) adds the I signal to the Q signal. A comparator(18) compares an output of the adder(17) with a reference signal. An accumulator(19) accumulates an output of the comparator(18), and outputs the accumulated output to the multiplier(16).



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